

WHAT IS CLAIMED IS:

1. A self-aligning roller bearing comprising:
an outer ring having a raceway taking a shape of
circular arc and formed along its inner periphery;

5 an inner ring having a raceway disposed in a
face-to-face relationship with the inner periphery
sided raceway face of said outer ring and formed
along its outer periphery;

10 two rows of spherical rollers interposed between
the inner periphery sided raceway face of said outer
ring and the outer periphery sided raceway face of
said inner ring; and

15 a cage holding said two rows of spherical
rollers,

wherein a flange of said cage includes a protruded
portion having a large area on the side of a head of
said spherical roller.

2. A self-aligning roller bearing according to
20 claim 1, wherein said protruded portion is formed by
press working.

25 3. A self-aligning roller bearing according to
claim 1 or 2, wherein said protruded portion is
formed in a shape of petals protruding toward an
outside diameter by punching out a blank in the shape
of petals when conducting a press punching work.

4. A self-aligning roller bearing according to
claim 1 or 2, wherein if a minimum inside diameter of
said outer ring is larger than a flange maximum
5 diameter of said cage, said cage is formed in such a
shape that part of the flange maximum diametrical
portion is cut off.

5. A self-aligning roller bearing according to
10 claim 3, wherein if a minimum inside diameter of said
outer ring is larger than a flange maximum diameter
of said cage, said cage is formed in such a shape
that part of the flange maximum diametrical portion
is cut off.

15

6. A self-aligning roller bearing comprising:
an outer ring having a raceway taking a shape of
circular arc and formed along its inner periphery;
an inner ring having a raceway disposed in a
20 face-to-face relationship with the inner periphery
sided raceway face of said outer ring and formed
along its outer periphery;
two rows of spherical rollers interposed between
the inner periphery sided raceway face of said outer
25 ring and the outer periphery sided raceway face of
said inner ring; and
a cage holding said two rows of spherical

rollers,

a central portion of said outer ring being formed with an oil supply hole, for supplying oil, extending in a radial direction,

5 wherein a flange of said cage includes a protruded portion on the side of a head of said spherical roller, and

10 a recessed portion formed in a rear face of the protruded portion communicates with the oil supply hole of said outer ring and extends through up to an inside diameter side from an outside diameter side.

7. A self-aligning roller bearing according to claim 6, wherein the protruded portion or the 15 recessed portion is formed by press working.